BREATHING BETTER: Exploring Investment Opportunities For Air Quality

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ICIMOD
Annual Emission
ICIMOD's Intervention with Partners

- Cleaner Brick Kiln methodologies and Innovations
- Capacity Building and Skills Enhancement
- Socially Issues
- Fostering Policy support
- Enabling South-South Cooperation
So far converting traditional brick kiln to zig-zag we have been able to reduce ~4% of CO$_2$, 12% of PM and 17% of BC emissions.
### Emission Measurement

<table>
<thead>
<tr>
<th>Kiln Type</th>
<th>CO₂ EF (gram per kg of brick)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCBTK</td>
<td>95.91</td>
</tr>
<tr>
<td>Zigzag</td>
<td>82.41</td>
</tr>
</tbody>
</table>

### Emission Factor (g/kg of brick)

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>Emission Factor (g/kg of brick)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.21</td>
</tr>
<tr>
<td>BC</td>
<td>0.033</td>
</tr>
</tbody>
</table>

Tapping VCM

Cleaner interventions & Innovation

Improved Performance

Monitoring Reporting and Verification

Credits

Carbon Markets

Traditional Kilns
Cleaner Interventions

- Initial Firing using 100% LPG
- Substitution of Coal by Biomass Pellets
  (Cleaner – Cost Effective – Convenient)
Thank You!!